Chemours™

The Chemours Company
Fluoroproducts
22828 NC Highway 87 W
Fayetteville, NC 28306-7332

910-483-4681 o
chemours com

CERTIFIED MAIL ARTICLE NUMBER 7002 0860 0006 9104 7828
RETURN RECEIPT REQUESTED

April 27, 2016

Ms. Wren Thedford
NCDEQ Division of Water Resources
NPDES Unit
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

SUBJECT: NPDES Permit Renewal Application
NPDES Permit No. NC0003573

Dear Ms. Thedford:

The Chemours Company – Fayetteville Works is requesting renewal of NPDES Wastewater Discharge Permit No. NC0003573. Since the issuance of the last permit, the ownership of this facility changed from the DuPont Company to The Chemours Company FC, LLC. Also, two separate companies, Kuraray America Inc. and the DuPont Company, are operating manufacturing units and are treating and discharging their wastewaters under the Chemours' NPDES Permit.

Enclosed are the original and two copies of the General Information Form 1 (Form 3510-1), Wastewater Discharge Information Form 2C (Form 3510-2C), and additional required supporting documentation for renewal of the subject permit by the NC Division of Water Resources.

Included in the permit application are the following supplemental information documents: Sludge Management Plan, Current Facility Wastewater Management, Current Facility Operating Conditions, Alternate Application Schedule for §316(b) of the Clean Water Act, Elimination of Monitoring Requirement for PFOA, and the non-reporting of bis(chloromethyl) ether.

If you have any questions or need additional information, please contact me at (910) 678-1155.

Sincerely,

Michael E. Johnson, PE
Environmental Manager

Enclosures

Please print or type in the unshaded areas only

Form Approved OMB No 2040-0086

FORM 1 GENERAL

EPA

U S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting)

I EPA I D NUMBER

S		T/A	C
F	NCD 047 368 642		D

1 2 13 14 15

LABEL ITEMS
I. EPA I D NUMBER
III. FACILITY NAME
V. FACILITY MAILING ADDRESS
VI FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space Review the information carefully, if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)* Complete all items if no label has been provided Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected

II POLLUTANT CHARACTERISTICS

INSTRUCTIONS Complete A through J to determine whether you need to submit any permit application forms to the EPA If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question Mark "X" in the box in the third column if the supplemental form is attached If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements, see Section C of the instructions See also, Section D of the instructions for definitions of **bold-faced terms**

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)	X			F Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	X			J Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III NAME OF FACILITY

C 1 SKIP: Chemours Company - Fayetteville Works

15 16 - 29 30 69

IV FACILITY CONTACT

A NAME & TITLE *(last, first, & title)*	B PHONE *(area code & no)*
Johnson, Michael, Environmental Manager	(910) 678-1155
15 16 45	46 48 49 51 52- 55

V. FACILTY MAILING ADDRESS

A STREET OR P O BOX

C 3: 22828 NC Highway 87 W

15 16 45

B CITY OR TOWN	C STATE	D ZIP CODE
Fayetteville	NC	28306
15 16 40	41 42	47 51

VI. FACILITY LOCATION

A STREET, ROUTE NO OR OTHER SPECIFIC IDENTIFIER

C 5: 22828 NC Highway 87 W

15 16 45

B COUNTY NAME

Bladen

46 70

C CITY OR TOWN	D STATE	E ZIP CODE	F COUNTY CODE *(if known)*
Fayetteville	NC	28306	37017
C 6 15 16 40	41 42	47 51	52 -54

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII SIC CODES *(4-digit, in order of priority)*

A FIRST	B SECOND
7 2869 *(specify)* INDUSTRIAL ORGANIC CHEMICALS	7 3083 *(specify)* LAMINATED PLASTICS PLATE, SHEET, AND PROFILE SHAPES
C THIRD	**D FOURTH**
7 3081 *(specify)* UNSUPPORTED PLASTICS FILM AND SHEET NOTE Kuraray Butacite Butacite® and SentryGlas® sheeting process units	7 2821 *(specify)* PLASTIC MATERIALS AND RESINS NOTE: DuPont PVF resin process units

VIII OPERATOR INFORMATION

A NAME: The Chemours Company FC, LLC

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box if "Other," specify)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P

(specify)

D PHONE *(area code & no.)*: A (302) 773-1000

E STREET OR P O BOX: 1007 Market Street

F CITY OR TOWN	G STATE	H ZIP CODE	IX INDIAN LAND
B Wilmington	DE	19898	Is the facility located on Indian lands? ☐ YES ☑ NO

X EXISTING ENVIRONMENTAL PERMITS

A NPDES *(Discharges to Surface Water)*	D PSD *(Air Emissions from Proposed Sources)*	
9 N NC0003573	9 P NC Title V Permit 03735	
B UIC *(Underground Injection of Fluids)*	**E OTHER *(specify)***	
9 U N/A	9 WQ0035431	*(specify)* Land Application Permit
C RCRA *(Hazardous Wastes)*	**E OTHER *(specify)***	
9 R NCD047368642	9	*(specify)*

XI MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

The Chemours Company - Fayetteville Works (formerly the DuPont Company - Fayetteville Works) is a fluorinated chemicals manufacturer situated on a 2,200-acre property in northwestern Bladen County, NC.

The Chemours' products produced at the facility include fluorinated monomers and fluorinated vinyl ethers, Nafion™ membranes and dispersion, and fluoropolymer processing aids. Chemours operates two natural gas / fuel oil-fired boilers, which provides steam for the entire facility.

Also located at this facility are two tenant companies: Kuraray America Inc. and the DuPont Company. Kuraray operates the Butacite® polyvinyl butyral (PVB) thermoplastic sheet and resin manufacturing unit and the SentryGlas® ionoplast interlayer manufacturing unit. DuPont operates two polyvinyl fluoride (PVF) resin manufacturing units.

Chemours receives and treats all of the Kuraray and DuPont process wastewater, sanitary wastewater, and contact stormwater in the Chemours' owned and operated wastewater treatment plant, and discharges that treated wastewater through Outfall 001 under the Chemours' NPDES Wastewater Discharge Permit (Permit No. NC0003573). The Kuraray and DuPont non-contact cooling waters and stormwaters are discharged through Outfall 002 under the Chemours' NPDES Wastewater Discharge Permit.

XIII CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B SIGNATURE	C DATE SIGNED
Ellis H. McGaughy - Plant Manager	Ellis H. McGaughy	4/27/2016

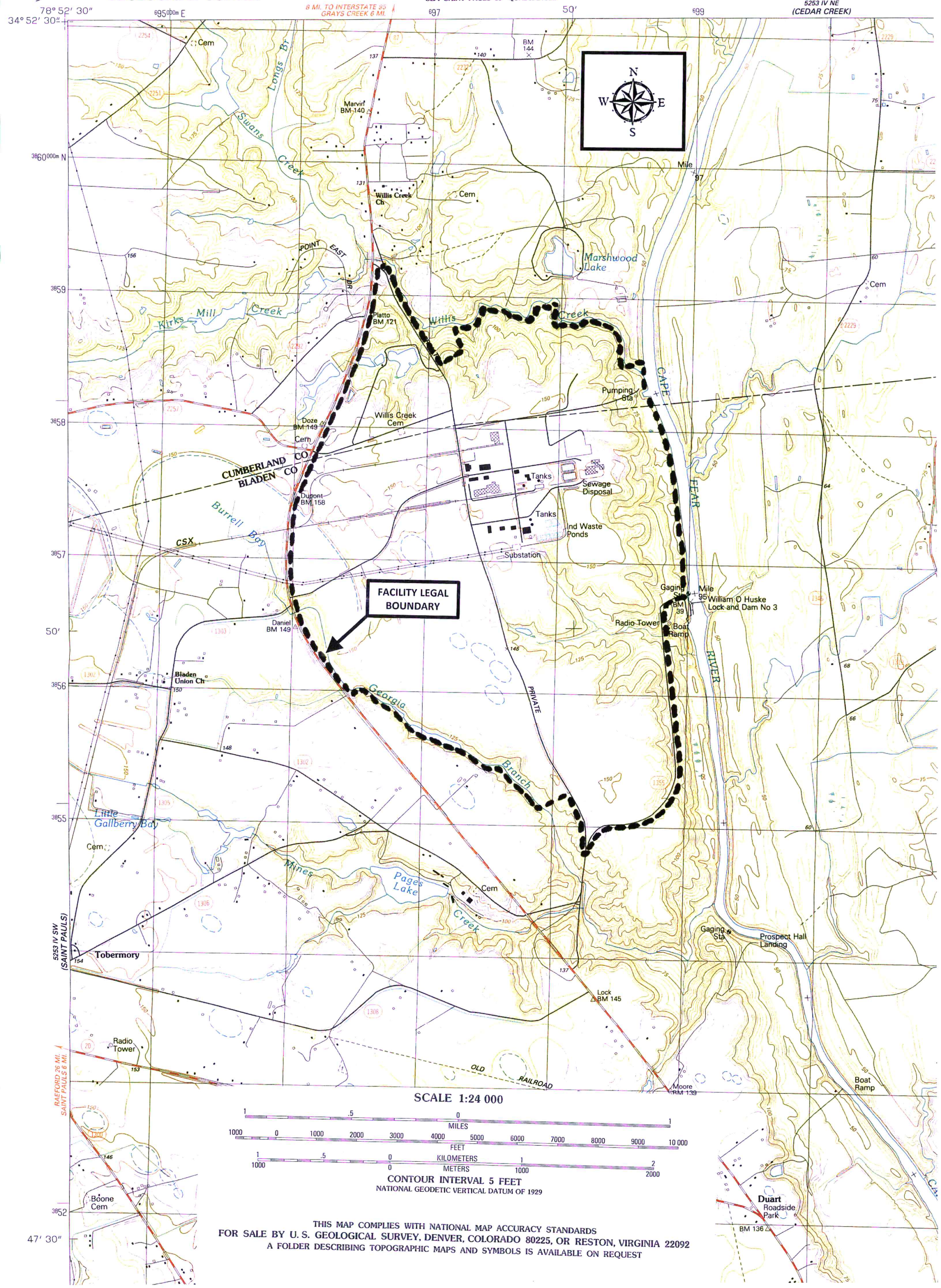
COMMENTS FOR OFFICIAL USE ONLY

C

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

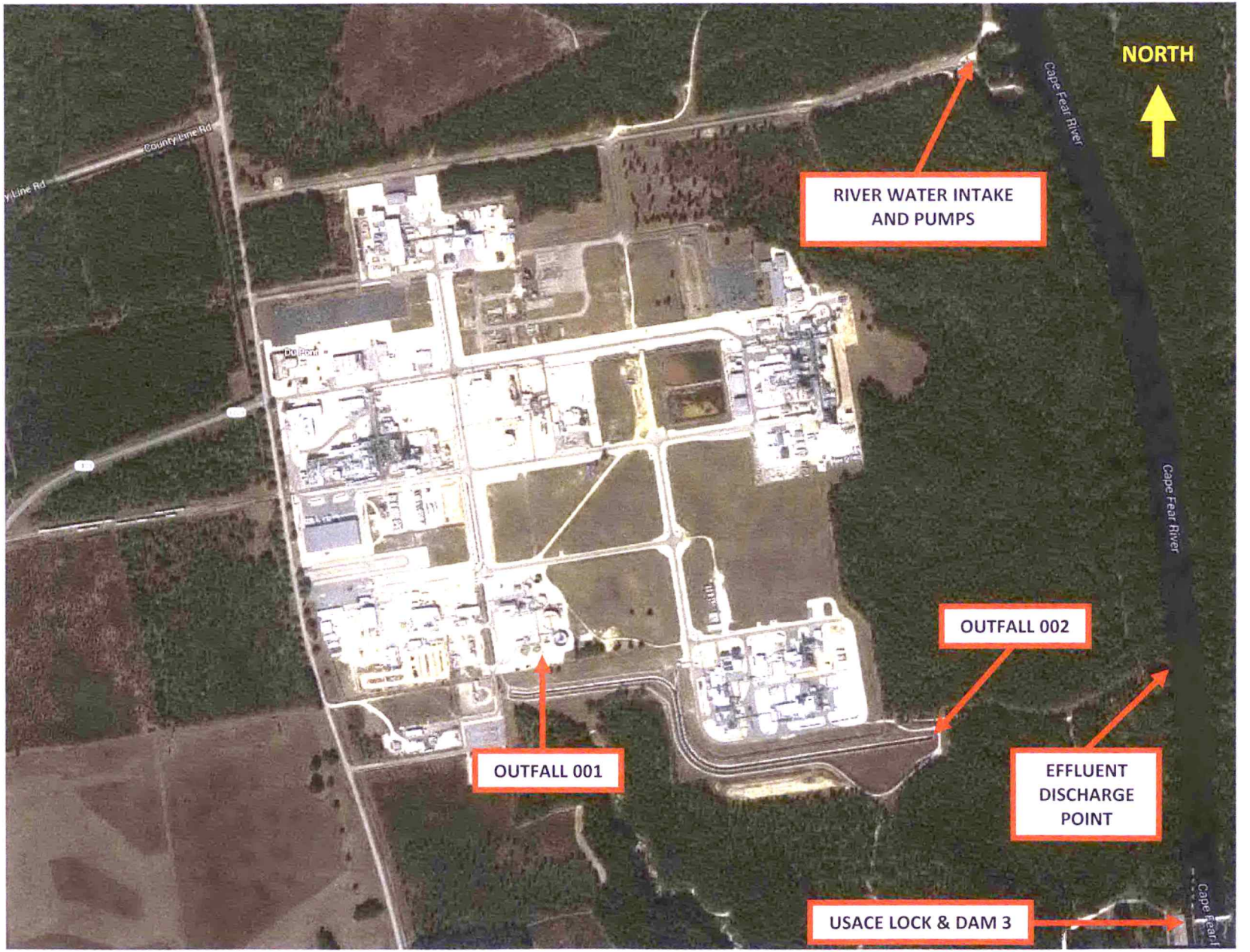
DUART QUADRANGLE
NORTH CAROLINA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 SAINT PAULS 15' QUADRANGLE

STATE OF NORTH CAROLINA
DEPARTMENT OF NATURAL RESOURCE
AND COMMUNITY DEVELOPMENT
RALEIGH, N. C.

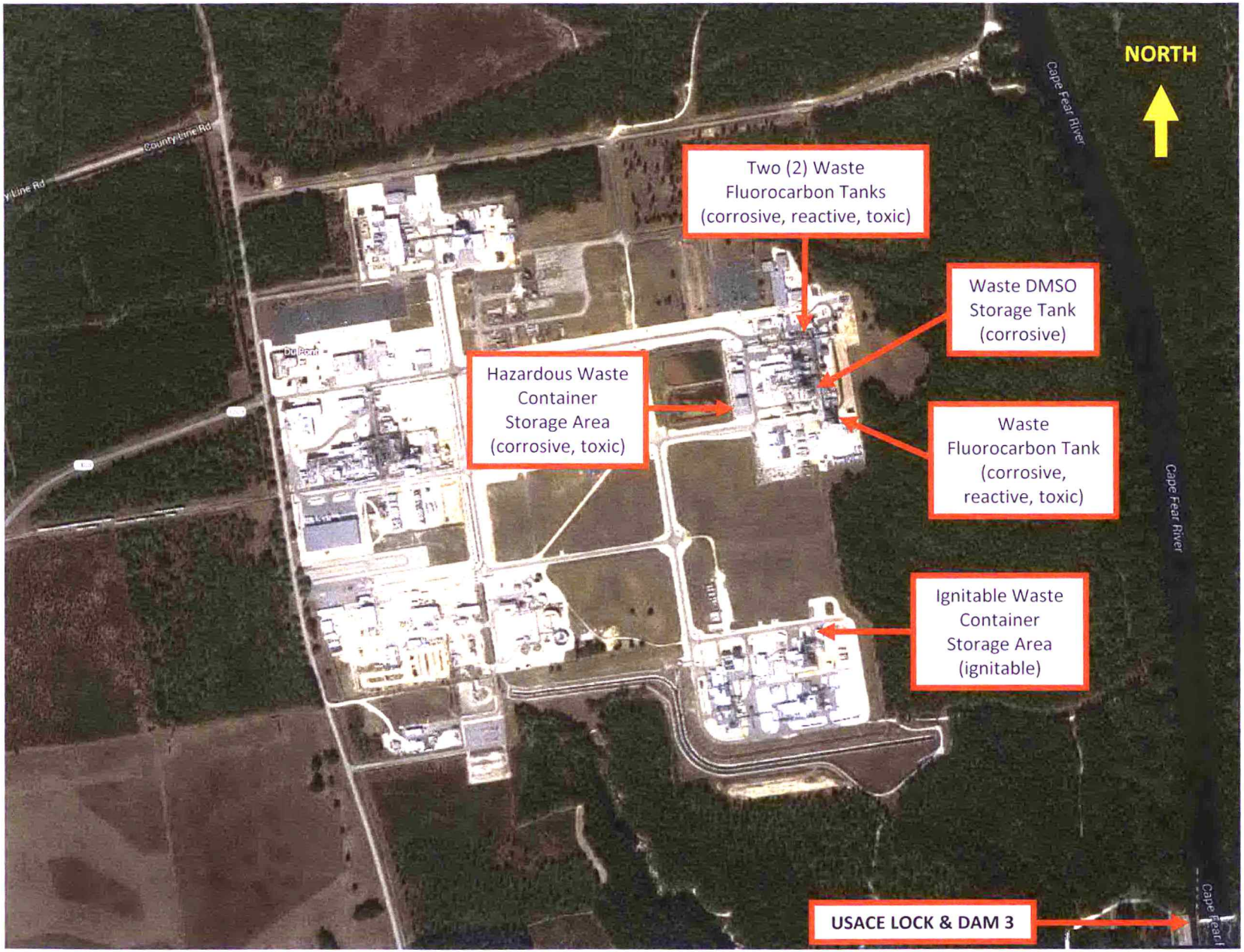


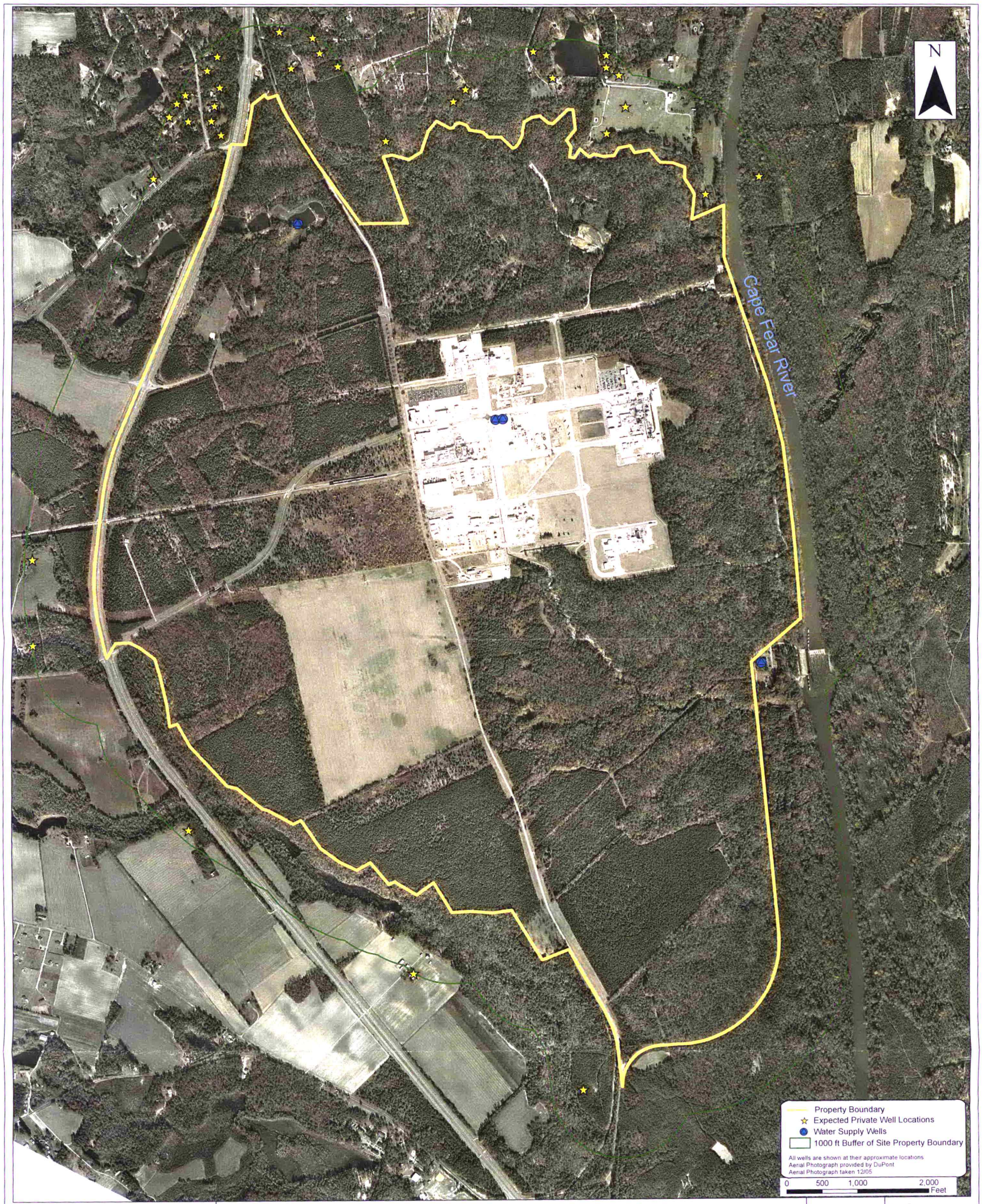
5253 IV NW (HOPE MILLS)
5253 IV NE (CEDAR CREEK)
5253 IV SW (SAINT PAULS)
78° 52' 30"
34° 52' 30"
50'
47' 30"
8 MI. TO INTERSTATE 95
GRAYS CREEK 6 MI.
RAEFORD 26 MI.
SAINT PAULS 6 MI.
N
W
E
S
FACILITY LEGAL BOUNDARY
CUMBERLAND CO
BLADEN CO
CSX
Longs Br
Swans Creek
Kirks Mill Creek
Willis Creek
Willis Creek Ch
Willis Creek Cem
Marshwood Lake
Marvin BM 140
Platto BM 121
Doze BM 149
Dupont BM 158
Daniel BM 149
POINT EAST DR
Burrell Bay
Georgia Branch
Tanks
Sewage Disposal
Ind Waste Ponds
Substation
Pumping Sta
CAPE FEAR RIVER
Mile 97
Mile 95
Gaging Sta
BM 39
William O Huske Lock and Dam No 3
Radio Tower
Boat Ramp
PRIVATE
Bladen Union Ch
Little Gallberry Bay
Mines Creek
Pages Lake
Cem
Tobermory
Lock BM 145
Moore BM 139
OLD RAILROAD
Prospect Hall Landing
Boone Cem
Duart
Roadside Park
BM 136
SCALE 1:24 000
MILES
FEET
KILOMETERS
METERS
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

CHEMOURS COMPANY – FAYETTEVILLE WORKS
LOCATIONS OF INTAKE AND DISCHARGE STRUCTURES



CHEMOURS COMPANY – FAYETTEVILLE WORKS
LOCATIONS OF HAZARDOUS WASTE MANAGEMENT FACILITIES





PARSONS

Parsons-Commercial Technology Group
4701 Hedgemore Dr
Charlotte, NC 28209

Water Supply and Expected Private Well Location Map
DuPont Fayetteville Works Facility
Fayetteville, NC

Created: C. Oneal	DuPont Project Number:
Date: 01/31/2011	Parsons Project Number: 445394.01000
Revision Number: 0	Figure Number:
File Name: G:\Fayetville\Gis\Project_figures\Fay_Site_1000ft_buf_w_parcels.mxd	

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
NCD 047 368 642

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM 2C NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	34.00	50.00	22.93	-78.00	50.00	11.47	Cape Fear River
002	34.00	50.00	21.58	-78.00	49.00	25.70	Cape Fear River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Chemours Manufacturing Processes	159,361 gal/day	BIOLOGICAL WASTEWATER TREATMENT PLANT		
	Kuraray Butacite Mfg Process	655,657 gal/day	(1) Influent Sump	1-O	
	Kuraray SentryGlas Mfg Process	0 gal/day	(2) Equalization with mixing and aeration	1-O	3-E
	DuPont PVF Mfg Processes	211,654 gal/day	(3) Emergency Retention Tank	1-O	
	Demin Water Neutralized Regenerate	75,000 gal/day	(4) Pre-Digester Tank	3-E	
	Sanitary Sewer	10,000 gal/day	(5) Activated Sludge Aeration Tank	3-A	
	Process Areas Stormwater	94,216 gal/day	(6) Clarification (3 clarifiers in parallel)	1-U	
	TOTAL INFLUENT TO WWTP	1,205,888 gal/day			
	Evaporation from WWTP Operations	50,000 gal/day	BIOLOGICAL SLUDGE (SOLIDS) MANAGEMENT		
	Evaporation from Sludge Drying	19,943 gal/day	(1) Dissolved Air Flotation	5-J	
	Water Content of Landfilled Sludge	2,493 gal/day	(2) Rotary Filter	5-C	
	OUTFALL 001 - TOTAL EFFLUENT	1,133,452 gal/day	(3) Sludge Filter Press	5-R	
			(4) Sludge Steam-Heated Dryers	5-M	
			(5) Disposal at Off-site Landfill	5-Q	
002	Outfall 001 Treated Effluent	1,133,452 gal/day			
	Non-Contact river water	23,067,845 gal/day			
	Non-contact filtered water	1,923,328 gal/day			
	Stormwater	214,509 gal/day			
	Sediment Removal	50,000 gal/day			
	Boiler Condensate Blowdown	324,000 gal/day			
	OUTFALL 002 - TOTAL EFFLUENT	26,813,133 gal/day	Discharge to surface water (Cape Fear River)	4-A	

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES (*complete Item III-B*) ☐ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
NCD 047 368 642

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None of the pollutants listed in Table 2C-3 are believed to be present in the wastewater discharge from thi site.			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☑ YES (*list all such pollutants below*) ☐ NO (*go to Item VI-B*)

Antimony
Benzene
1,2-dichloroethane
Methylene chloride
Toluene

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

The "North Carolina Ceriodaphnia Chronic Effluent Bioassay Procedure" is performed each quarter in accordance with the requirement of condition A(4) of the facility's NPDES Permit. The NCDEQ Division of Water Resources has copies of the Form AT-1 test results that were submitted with the Discharge Monitoring Reports during the period from February 2012 through February 2016.

The quarterly chronic test performed during February 2012, failed for the ceriodaphnia dubia reproduction. The required monthly chronic tests performed in March and April 2012 both passed. No other toxicity test failures occurred during the five-year term of the current permit.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
TBL	2401 West 5th Street Lumberton, NC 28358	910-738-6190	Chemical Oxygen Demand (COD); Total Organic Carbon (TOC); Total Suspended Solids (TSS); Ammonia (as N); Color; Fecal Coliform; Fluoride; Nitrate-Nitrite (as N); Nitrogen; Total Organic (as N); Oil and Grease; Total Phosphorus (as P); Sulfate (as SO4); Surfactants; Total Aluminum; Total Iron; Total Magnesium; Total Manganese; Part C Metals, Cyanide, and Total Phenols; Part C GC/MS - Volatile Compounds; Part C GC/MS - Acid Compounds; Part C GC/MS - Base/Neutral Compounds; Part C GC/MS Fraction - Pesticides

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

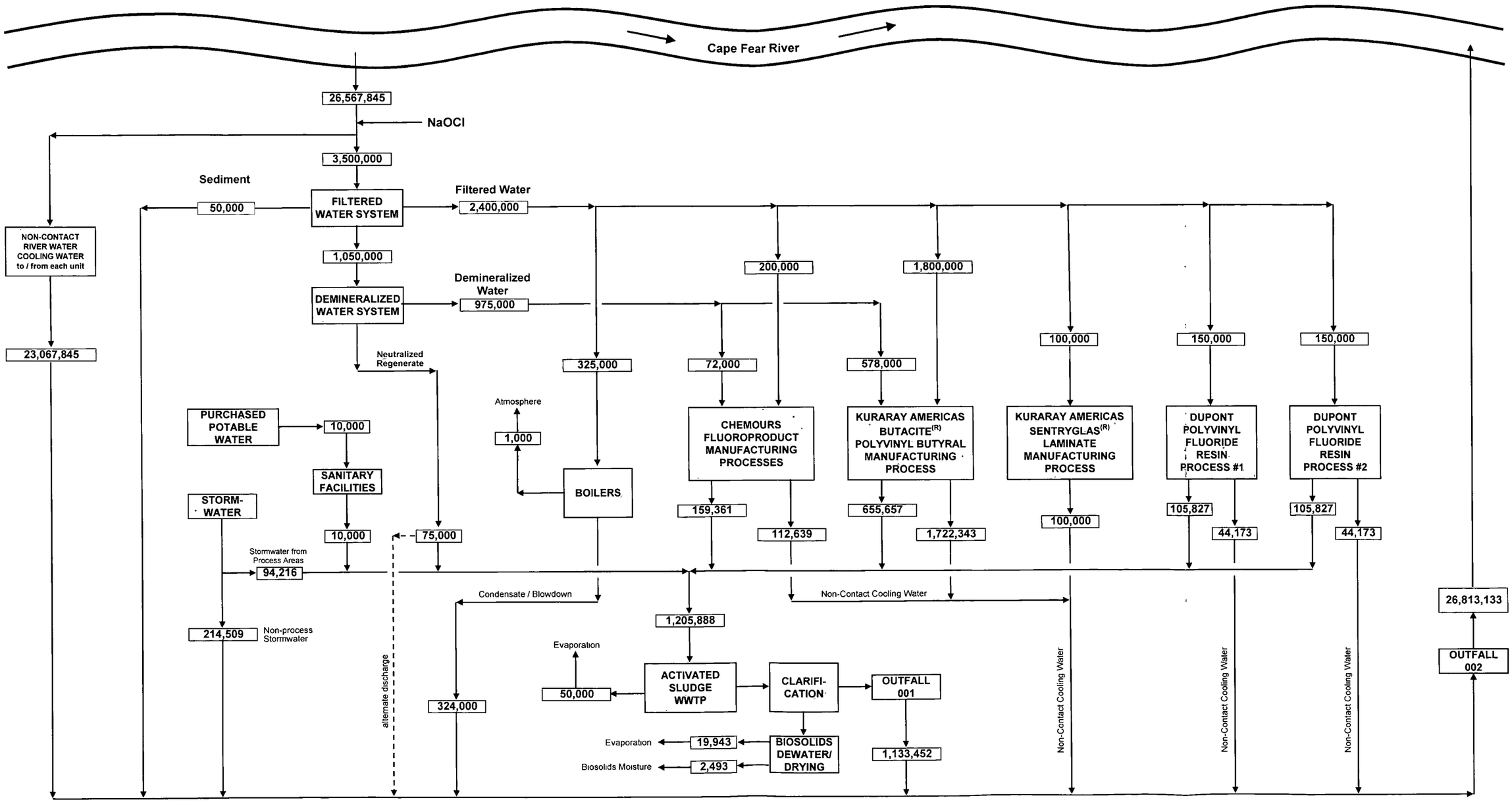
A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Ellis H. McGaughy - Plant Manager	(910) 678-1224
C. SIGNATURE Ellis H. McGaughy	D. DATE SIGNED 04/27/2016

FORM 2C ITEM II-A : LINE DRAWING

WATER BALANCE (Revised 04-21-2016)

Flow Units: Gallons per Day
Basis: (1) All Manufacturing Units operating
(2) Maximum 30-day average of measured flows (2013 - 2015)

NPDES PERMIT RENEWAL APPLICATION
Chemours Company - Fayetteville Works
NPDES Permit No. NC0003573



OUTFALL 001

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages
SEE INSTRUCTIONS.

EPA I.D NUMBER (*copy from Item 1 of Form 1*)
NCD 047 368 642

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 001

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	71.0	675.9	26.8	207.1	5.8	37.8	465	mg/L	lb.	n/a	n/a	n/a
b. Chemical Oxygen Demand (*COD*)	32.1	313.2					1	mg/L	lb.	n/a	n/a	n/a
c. Total Organic Carbon (*TOC*)	84.9	828.4					1	mg/L	lb.	n/a	n/a	n/a
d. Total Suspended Solids (*TSS*)	44.0	387.8	22.0	177.0	9.8	54.6	465	mg/L	lb.	n/a	n/a	n/a
e. Ammonia (*as N*)	0.414	4.0					1	mg/L	lb.	n/a	n/a	n/a
f. Flow	VALUE 1.627		VALUE 1.133		VALUE 0.907		1095	MGD	MGD	VALUE n/a		n/a
g Temperature (*winter*)	VALUE 26.0		VALUE 22.2		VALUE 18.4		118	°C		VALUE n/a		n/a
h. Temperature (*summer*)	VALUE 32.0		VALUE 30.6		VALUE 29.0		118	°C		VALUE n/a		n/a
i. pH	MINIMUM 6.37	MAXIMUM 8.47	MINIMUM n/a	MAXIMUM n/a			374	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b Chlorine, Total Residual	X		0.03	0.3					1	mg/L	lb.	n/a	n/a	n/a
c. Color	X		10	n/a					1	PCU	n/a	n/a	n/a	n/a
d. Fecal Coliform	X		est. 2	n/a					1	col/dL	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	X		170	1659					1	mg/L	lb.	n/a	n/a	n/a
f. Nitrate-Nitrite (*as N*)	X		0.065	0.6					1	mg/L	lb.	n/a	n/a	n/a

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ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)	X		1.016	9.9					1	mg/L	lb.	n/a	n/a	n/a
h. Oil and Grease	X		<5.6	<50.0	5.2	42.5	0.26	1.87	36	mg/L	lb.	n/a	n/a	n/a
i Phosphorus (as P), Total (7723-14-0)	X		12.4	121.0					1	mg/L	lb.	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as SO_4*) (14808-79-8)	X		1083	10568					1	mg/L	lb.	n/a	n/a	n/a
l. Sulfide (*as S*)		X												
m. Sulfite (*as SO_3*) (14265-45-3)		X												
n. Surfactants	X		3.07	30.0					1	mg/L	lb.	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	X		0.19	1.9					1	mg/L	lb.	n/a	n/a	n/a
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)	X		0.28	2.7					1	mg/L	lb.	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	X		2.26	22.1					1	mg/L	lb.	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
NCD 047 368 642	001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part, please review each carefully Complete one table (*all 7 pages*) for each outfall See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.002	<0.020					1	mg/L	lb.	n/a	n/a	n/a
2M. Arsenic, Total (7440-38-2)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
3M Beryllium, Total (7440-41-7)	X			<0.001	<0.010					1	mg/L	lb.	n/a	n/a	n/a
4M. Cadmium, Total (7440-43-9)	X			<0.002	<0.020					1	mg/L	lb.	n/a	n/a	n/a
5M. Chromium, Total (7440-47-3)	X			0.010	0.070	0.010	0.070	0.004	0.034	4	mg/L	lb.	n/a	n/a	n/a
6M. Copper, Total (7440-50-8)	X			0.007	0.050	0.007	0.050	0.0055	0.047	4	mg/L	lb.	n/a	n/a	n/a
7M. Lead, Total (7439-92-1)	X			<0.003	<0.029					1	mg/L	lb.	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	X			<0.0002	<0.002					1	mg/L	lb.	n/a	n/a	n/a
9M. Nickel, Total (7440-02-0)	X			0.012	0.090	0.012	0.090	0.0083	0.065	4	mg/L	lb.	n/a	n/a	n/a
10M. Selenium, Total (7782-49-2)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
11M Silver, Total (7440-22-4)	X			<0.002	<0.020					1	mg/L	lb.	n/a	n/a	n/a
12M Thallium, Total (7440-28-0)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
13M. Zinc, Total (7440-66-6)	X			0.042	0.390	0.042	0.390	0.0343	0.286	4	mg/L	lb.	n/a	n/a	n/a
14M. Cyanide, Total (57-12-5)	X			<0.005	<0.049					1	mg/L	lb.	n/a	n/a	n/a
15M. Phenols, Total	X			<0.0400	<0.390					1	mg/L	lb.	n/a	n/a	n/a
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS Not applicable											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)	X			<0.0500	<0.488					1	mg/L	lb.	n/a	n/a	n/a
2V. Acrylonitrile (107-13-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
3V. Benzene (71-43-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X	Not Req	ired	per NCDWR	NPDES	Permitt'g	Unit						
5V. Bromoform (75-25-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
6V Carbon Tetrachloride (56-23-5)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
7V. Chlorobenzene (108-90-7)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
8V. Chlorodibromomethane (124-48-1)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
9V. Chloroethane (75-00-3)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			<0.0500	<0.488					1	mg/L	lb.	n/a	n/a	n/a
11V. Chloroform (67-66-3)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
12V. Dichlorobromomethane (75-27-4)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
13V. Dichlorodifluoromethane (75-71-8)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
14V. 1,1-Dichloroethane (75-34-3)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
15V. 1,2-Dichloroethane (107-06-2)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
16V. 1,1-Dichloroethylene (75-35-4)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
17V. 1,2-Dichloropropane (78-87-5)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
18V. 1,3-Dichloropropylene (542-75-6)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
19V Ethylbenzene (100-41-4)	X			<0.00100	<0.10					1	mg/L	lb.	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
21V. Methyl Chloride (74-87-3)	X			<0.00250	<0.024					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-4

1 POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
24V. Tetrachloroethylene (127-18-4)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
25V Toluene (108-88-3)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
27V. 1,1,1-Trichloroethane (71-55-6)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
28V 1,1,2-Trichloroethane (79-00-5)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
29V Trichloroethylene (79-01-6)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
30V. Trichlorofluoromethane (75-69-4)	X			<0.00500	<0.049					1	mg/L	lb.	n/a	n/a	n/a
31V. Vinyl Chloride (75-01-4)	X			<0.00100	<0.010					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
2A. 2,4-Dichlorophenol (120-83-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
3A. 2,4-Dimethylphenol (105-67-9)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
5A. 2,4-Dinitrophenol (51-28-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
6A. 2-Nitrophenol (88-75-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
7A. 4-Nitrophenol (100-02-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
8A. P-Chloro-M-Cresol (59-50-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
9A Pentachlorophenol (87-86-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
10A. Phenol (108-95-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
11A. 2,4,6-Trichlorophenol (88-05-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1 POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)			a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
2B. Acenaphtylene (208-96-8)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
3B. Anthracene (120-12-7)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
4B. Benzidine (92-87-5)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
5B. Benzo (*a*) Anthracene (56-55-3)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
6B Benzo (*a*) Pyrene (50-32-8)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
8B. Benzo (*ghi*) Perylene (191-24-2)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
9B Benzo (*k*) Fluoranthene (207-08-9)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
14B 4-Bromophenyl Phenyl Ether (101-55-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
15B. Butyl Benzyl Phthalate (85-68-7)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
16B. 2-Chloro-naphthalene (91-58-7)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
18B Chrysene (218-01-9)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
19B Dibenzo (*a,h*) Anthracene (53-70-3)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
20B. 1,2-Dichloro-benzene (95-50-1)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a
21B. 1,3-Di-chloro-benzene (541-73-1)	X			<0.00100	<0.01					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
23B. 3,3-Dichloro-benzidine (91-94-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
24B. Diethyl Phthalate (84-66-2)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
25B. Dimethyl Phthalate (131 -11-3)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
26B. Di-N-Butyl Phthalate (84-74-2)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
27B. 2,4-Dinitro-toluene (121-14-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
28B. 2,6-Dinitro-toluene (606-20-2)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
29B. Di-N-Octyl Phthalate (117-84-0)	X			<0.00300	<0.029					1	mg/L	lb.	n/a	n/a	n/a
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
31B Fluoranthene (206-44-0)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
32B. Fluorene (86-73-7)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
33B. Hexachloro-benzene (118-74-1)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
34B. Hexachloro-butadiene (87-68-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
35B. Hexachloro-cyclopentadiene (77-47-4)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
36B Hexachloro-ethane (67-72-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
38B Isophorone (78-59-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
39B. Naphthalene (91-20-3)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
40B. Nitrobenzene (98-95-3)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
41B. N-Nitro-sodimethylamine (62-75-9)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3 EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
44B Phenanthrene (85-01-8)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
45B. Pyrene (129-00-0)	X			<0.00100	<0.001					1	mg/L	lb.	n/a	n/a	n/a
46B. 1,2,4-Trichlorobenzene (120-82-1)	X			<0.0100	<0.098					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
2P. α-BHC (319-84-6)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
3P. β-BHC (319-85-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
4P γ-BHC (58-89-9)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
5P. δ-BHC (319-86-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
6P. Chlordane (57-74-9)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
7P. 4,4'-DDT (50-29-3)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
8P. 4,4'-DDE (72-55-9)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
9P. 4,4'-DDD (72-54-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
10P. Dieldrin (60-57-1)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
11P. α-Enosulfan (115-29-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
12P. β-Endosulfan (115-29-7)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
13P Endosulfan Sulfate (1031-07-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
14P Endrin (72-20-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
15P. Endrin Aldehyde (7421-93-4)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
16P. Heptachlor (76-44-8)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4 UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)	X			<0.000050	<5e-4					1	mg/L	lb.	n/a	n/a	n/a
18P. PCB-1242 (53469-21-9)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
19P. PCB-1254 (11097-69-1)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
20P. PCB-1221 (11104-28-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
21P. PCB-1232 (11141-16-5)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
22P. PCB-1248 (12672-29-6)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
23P. PCB-1260 (11096-82-5)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
24P. PCB-1016 (12674-11-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a
25P. Toxaphene (8001-35-2)	X			<0.000500	<0.005					1	mg/L	lb.	n/a	n/a	n/a

OUTFALL 002

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

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V. INTAKE AND EFFLUENT CHARACTERISTICS (*continued from page 3 of Form 2-C*) — OUTFALL NO. 002

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	3.9	762.1	3.9	762.1	1.4	185.7	12	mg/L	lb.	n/a	n/a	n/a
b. Chemical Oxygen Demand (*COD*)	33.7	4898	33.7	4898	4.37	458.6	12	mg/L	lb.	n/a	n/a	n/a
c. Total Organic Carbon (*TOC*)	12.8	1135					1	mg/L	lb.	n/a	n/a	n/a
d. Total Suspended Solids (*TSS*)	10.6	939.7					1	mg/L	lb.	n/a	n/a	n/a
e. Ammonia (*as N*)	0.410	36.3					1	mg/L	lb.	n/a	n/a	n/a
f. Flow	VALUE 34.791		VALUE 26.813		VALUE 14.556		1095	MGD	MGD	VALUE n/a		n/a
g. Temperature (*winter*)	VALUE 22.0		VALUE 18.8		VALUE 14.1		188	°C		VALUE n/a		n/a
h Temperature (*summer*)	VALUE 33.0		VALUE 31.1		VALUE 30.0		190	°C		VALUE n/a		n/a
i. pH	MINIMUM 6.11	MAXIMUM 8.16	MINIMUM n/a	MAXIMUM n/a			647	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2 MARK "X" a BELIEVED PRESENT	2 MARK "X" b BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	4. UNITS b MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual	X		0.14	12.4					1	mg/L	lb.	n/a	n/a	n/a
c. Color	X		27	n/a					1	PCU	n/a	n/a	n/a	n/a
d Fecal Coliform	X		est. 2	n/a					1	col/dL	n/a	n/a	n/a	n/a
e. Fluoride (16984-48-8)	X		35.1	4110	35.1	4110	17.3	1783	12	mg/L	lb.	n/a	n/a	n/a
f. Nitrate-Nitrite (*as N*)	X		2.4	442.9	2.4	442.9	1.04	127.5	36	mg/L	lb.	n/a	n/a	n/a

OUTFALL 002

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)	X		0.362	32.1					1	mg/L	lb.	n/a	n/a	n/a
h. Oil and Grease	X		<4.76	<422					1	mg/L	lb.	n/a	n/a	n/a
i. Phosphorus (as P), Total (7723-14-0)	X		1.2	154	1.2	154	0.8	85.8	36	mg/L	lb.	n/a	n/a	n/a
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as SO_4*) (14808-79-8)	X		105	9309					1	mg/L	lb.	n/a	n/a	n/a
l. Sulfide (*as S*)		X												
m. Sulfite (*as SO_3*) (14265-45-3)		X												
n. Surfactants	X		0.552	48.9					1	mg/L	lb.	n/a	n/a	n/a
o. Aluminum, Total (7429-90-5)	X		1.27	112.6					1	mg/L	lb.	n/a	n/a	n/a
p. Barium, Total (7440-39-3)		X												
q Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s Iron, Total (7439-89-6)	X		1.15	102.0					1	mg/L	lb.	n/a	n/a	n/a
t. Magnesium, Total (7439-95-4)	X		2.26	200.4					1	mg/L	lb.	n/a	n/a	n/a
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)	X		0.069	6.12					1	mg/L	lb.	n/a	n/a	n/a
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged Note that there are 7 pages to this part, please review each carefully Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
2M Arsenic, Total (7440-38-2)	X			<0.005	<0.443					1	mg/L	lb.	n/a	n/a	n/a
3M. Beryllium, Total (7440-41-7)	X			<0.001	<0.089					1	mg/L	lb.	n/a	n/a	n/a
4M Cadmium, Total (7440-43-9)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
5M. Chromium, Total (7440-47-3)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
6M. Copper, Total (7440-50-8)	X			0.005	0.443					1	mg/L	lb.	n/a	n/a	n/a
7M. Lead, Total (7439-92-1)	X			<0.003	<0.266					1	mg/L	lb.	n/a	n/a	n/a
8M Mercury, Total (7439-97-6)	X			<0.0002	<0.018					1	mg/L	lb.	n/a	n/a	n/a
9M. Nickel, Total (7440-02-0)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
10M. Selenium, Total (7782-49-2)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
11M. Silver, Total (7440-22-4)	X			<0.002	<0.177					1	mg/L	lb.	n/a	n/a	n/a
12M. Thallium, Total (7440-28-0)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
13M. Zinc, Total (7440-66-6)	X			0.008	0.709					1	mg/L	lb.	n/a	n/a	n/a
14M. Cyanide, Total (57-12-5)	X			<0.005	<0.433					1	mg/L	lb.	n/a	n/a	n/a
15M. Phenols, Total	X			0.0433	3.84					1	mg/L	lb.	n/a	n/a	n/a
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS Not applicable											

CONTINUED FROM THE FRONT

1 POLLUTANT AND CAS NUMBER (*if available*)	2 MARK "X"			3. EFFLUENT							4 UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)	X			<0.0500	<4.433					1	mg/L	lb.	n/a	n/a	n/a
2V. Acrylonitrile (107-13-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
3V. Benzene (71-43-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
4V. Bis (*Chloromethyl*) Ether (542-88-1)			X	Not Req	ired	per NCDWR	NPDES	Permitt'g	Unit						
5V Bromoform (75-25-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
6V. Carbon Tetrachloride (56-23-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
7V. Chlorobenzene (108-90-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
8V. Chlorodibromomethane (124-48-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
9V. Chloroethane (75-00-3)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			<0.0500	<4.433					1	mg/L	lb.	n/a	n/a	n/a
11V. Chloroform (67-66-3)	X			0.0248	2.199					1	mg/L	lb.	n/a	n/a	n/a
12V. Dichlorobromomethane (75-27-4)	X			0.00422	0.374					1	mg/L	lb.	n/a	n/a	n/a
13V. Dichlorodifluoromethane (75-71-8)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
14V. 1,1-Dichloroethane (75-34-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
15V. 1,2-Dichloroethane (107-06-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
16V. 1,1-Dichloroethylene (75-35-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
17V. 1,2-Dichloropropane (78-87-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
18V. 1,3-Dichloropropylene (542-75-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
19V. Ethylbenzene (100-41-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
20V Methyl Bromide (74-83-9)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
21V. Methyl Chloride (74-87-3)	X			<0.00250	<0.222					1	mg/L	lb.	n/a	n/a	n/a

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CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
24V. Tetrachloroethylene (127-18-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
25V. Toluene (108-88-3)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
27V. 1,1,1-Trichloroethane (71-55-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
28V. 1,1,2-Trichloroethane (79-00-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
29V Trichloroethylene (79-01-6)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
30V. Trichlorofluoromethane (75-69-4)	X			<0.00500	<0.443					1	mg/L	lb.	n/a	n/a	n/a
31V. Vinyl Chloride (75-01-4)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
2A 2,4-Dichlorophenol (120-83-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
3A. 2,4-Dimethylphenol (105-67-9)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
5A. 2,4-Dinitrophenol (51-28-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
6A. 2-Nitrophenol (88-75-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
7A. 4-Nitrophenol (100-02-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
8A. P-Chloro-M-Cresol (59-50-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
9A Pentachlorophenol (87-86-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
10A. Phenol (108-95-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
11A. 2,4,6-Trichlorophenol (88-05-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a. TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
2B. Acenaphtylene (208-96-8)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
3B. Anthracene (120-12-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
4B. Benzidine (92-87-5)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
5B. Benzo (*a*) Anthracene (56-55-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
6B Benzo (*a*) Pyrene (50-32-8)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
8B. Benzo (*ghi*) Perylene (191-24-2)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
11B Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			<0.00300	<0.266					1	mg/L	lb.	n/a	n/a	n/a
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
15B Butyl Benzyl Phthalate (85-68-7)	X			<0.00300	<0.266					1	mg/L	lb.	n/a	n/a	n/a
16B. 2-Chloro-naphthalene (91-58-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
18B. Chrysene (218-01-9)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
20B. 1,2-Dichloro-benzene (95-50-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
21B. 1,3-Di-chloro-benzene (541-73-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4. UNITS		5 INTAKE (*optional*)		
	a TESTING REQUIRED	b BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d NO OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
23B. 3,3-Dichloro-benzidine (91-94-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
24B Diethyl Phthalate (84-66-2)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
25B. Dimethyl Phthalate (131 -11-3)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
26B. Di-N-Butyl Phthalate (84-74-2)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
27B. 2,4-Dinitro-toluene (121-14-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
28B. 2,6-Dinitro-toluene (606-20-2)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
29B. Di-N-Octyl Phthalate (117-84-0)	X			<0.00300	<0.226					1	mg/L	lb.	n/a	n/a	n/a
30B 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
31B. Fluoranthene (206-44-0)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
32B. Fluorene (86-73-7)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
33B. Hexachloro-benzene (118-74-1)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
34B. Hexachloro-butadiene (87-68-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
35B. Hexachloro-cyclopentadiene (77-47-4)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
36B Hexachloro-ethane (67-72-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
38B. Isophorone (78-59-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
39B. Naphthalene (91-20-3)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
40B. Nitrobenzene (98-95-3)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
41B N-Nitro-sodimethylamine (62-75-9)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a TESTING REQUIRED	b. BELIEVED PRESENT	c BELIEVED ABSENT	a MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO OF ANALYSES	a CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
44B Phenanthrene (85-01-8)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
45B. Pyrene (129-00-0)	X			<0.00100	<0.089					1	mg/L	lb.	n/a	n/a	n/a
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			<0.0100	<0.887					1	mg/L	lb.	n/a	n/a	n/a
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
2P. α-BHC (319-84-6)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
3P. β-BHC (319-85-7)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
4P. γ-BHC (58-89-9)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
5P. δ-BHC (319-86-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
6P. Chlordane (57-74-9)	X			<0.000050	<0.044					1	mg/L	lb.	n/a	n/a	n/a
7P. 4,4'-DDT (50-29-3)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
8P. 4,4'-DDE (72-55-9)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
9P. 4,4'-DDD (72-54-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
10P. Dieldrin (60-57-1)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
11P. α-Enosulfan (115-29-7)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
12P. β-Endosulfan (115-29-7)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
13P. Endosulfan Sulfate (1031-07-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
14P Endrin (72-20-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
15P. Endrin Aldehyde (7421-93-4)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
16P. Heptachlor (76-44-8)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
NCD 047 368 642	002

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3 EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b BELIEVED PRESENT	c BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P Heptachlor Epoxide (1024-57-3)	X			<0.000050	<0.005					1	mg/L	lb.	n/a	n/a	n/a
18P. PCB-1242 (53469-21-9)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
19P PCB-1254 (11097-69-1)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
20P PCB-1221 (11104-28-2)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
21P. PCB-1232 (11141-16-5)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
22P. PCB-1248 (12672-29-6)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
23P. PCB-1260 (11096-82-5)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
24P. PCB-1016 (12674-11-2)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a
25P. Toxaphene (8001-35-2)	X			<0.000500	<0.044					1	mg/L	lb.	n/a	n/a	n/a

Supplemental Information – Permit Renewal Application – April 27, 2016

Sludge Management Plan

The Chemours Company – Fayetteville Works operates a Class 3 Wastewater Treatment Plant which is comprised of a single-stage activated sludge biological system.

Excess sludge is removed from the system by diverting part of the Recycled Activated Sludge (at approximately 0.6% solids) from the clarifiers to a Dissolved Air Floatation ("DAF") unit for initial thickening.

The sludge from the DAF (at approximately 3% solids) is transferred to a Mix Tank where polymer agents are added to enhance the dewatering process.

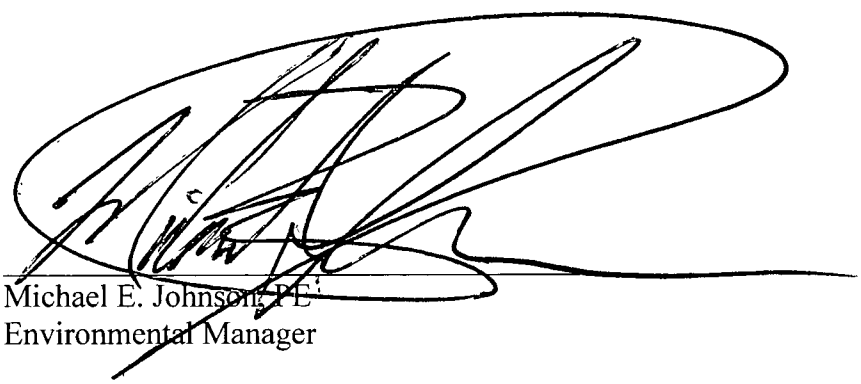
The semi-thickened sludge is transferred from the Mix Tank to a Rotary Filter for final thickening, whereby the sludge is thickened to 6% solids.

The thickened sludge is then transferred to a Screw Press where it is dewatered to a concentration of 9-20% solids.

Following the Screw Press, the sludge is typically dried in steam heated dryers to a concentration of 40-55% solids.

The dried sludge, or on occasion the dewatered sludge, is transported off-site to a commercial Subtitle D landfill. This sludge is currently being disposed of at the Waste Industries "Sampson County" Landfill near Roseboro, NC.

In 2015, the average weekly quantity of generated wasted sludge was approximately 35,000 lb.



Michael E. Johnson, PE
Environmental Manager

Supplemental Information – Permit Renewal Application – April 27, 2016

Current Facility Wastewater Management

Process wastewater and stormwater from the various manufacturing areas are collected in the respective area sumps and ultimately conveyed via a gravity flow underground process sewer pipe to the facility's central wastewater treatment plant ("WWTP"). Sanitary sewage is conveyed via a separate underground sewer system to the WWTP. The permitted flowrate of the WWTP is 2.0 MGD, with an actual average flowrate of approximately 1.2 MGD.

This untreated process wastewater is commingled in the WWTP Influent Sump where it is pumped to an 850,000-gallon Equalization Basin. The Equalization Basin is mixed with two floating submerged mixers. Three floating surface aerators in the basin cool and aerate the incoming wastewater.

A 175,000-gallon Emergency Retention Tank is available for temporary storage of untreated wastewater which may need additional treatment or acclimation in the WWTP activated sludge process at a controlled rate that allows for proper biological treatment.

Untreated wastewater from the Equalization Basin is normally pumped to a 250,000-gallon Predigester Tank in which initial biological activity with the WWTP activated sludge begins. The Predigester Tank is aerated. The partially treated wastewater from the Predigester Tank is pumped to a 1,700,000-gallon Aeration Tank.

The Aeration Tank is the unit where the majority of the biological activity occurs. The Aeration Tank is aerated primarily by a diffused air system located in the bottom of the tank. The tank can have supplemental aeration via one or two floating Biomixers® that injects air through submerged rotors.

The biologically treated wastewater is then sent to one of two in-ground clarifiers (119,000 gallons and 168,000 gallons respectively) or an above-ground 679,000-gallon clarifier; with all clarifiers being operated in parallel. The clarified treated effluent is discharged to and through Outfall 001.

The wasted activated sludge is sent to a Dissolved Air Floatation (DAF) unit, then to a 47,000 gallon Sludge Storage Tank, and finally to a Rotary Filter for thickening. The thickened sludge is dewatered in a Sludge Press, and can be dried in a steam-heated dryer for additional moisture removal. The dewatered sludge or dewatered/dried sludge is transported off-site to a commercial Subtitle D landfill.

Non-contact process cooling water and non-process stormwater are conveyed via surface ditches. In addition, excess riverwater flow and Outfall 001 effluent are discharged directly to a surface ditch. The combined, total flow of water from the site is discharged through and monitored at Outfall 002. The discharged treated wastewater is conveyed via an underground pipe to the Cape Fear River, where it enters the river at a point approximately 1,500 feet upstream of the William O. Huske Lock & Dam (a.k.a Lock & Dam No. 3).

Supplemental Information – Permit Renewal Application – April 27, 2016

Current Facility Operating Conditions

Chemours Fluoromonomers/Nafion® Membrane Manufacturing Area:

The Chemours Company – Fayetteville Works' Fluoromonomers / Nafion® Membrane manufacturing area produces several final products. Chemours™ Nafion® Membrane is a plastic film used in the chloroalkali industry and in electrochemical fuel cells. Chemours™ Nafion® Polymer Dispersions are used in the fabrication of thin films and coating formulations for fuel cells membranes, catalyst coatings, sensors, and a variety of electrochemical applications. The HFPO monomer and the Vinyl Ether monomers are used to manufacture various fluorochemical products such as Chemours™ Teflon®. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Chemours Polymer Processing Aid ("PPA") Manufacturing Area:

The Chemours Company – Fayetteville Works' PPA manufacturing area produces a polymer processing aid. The processing aid produced in this unit is used in the manufacturing of fluoropolymers and fluorinated telomers, but none of the produced processing aid is used at the Fayetteville Works site. All process wastewater generated from this manufacturing facility is collected and shipped off-site for disposal. No process wastewater from this manufacturing facility is discharged to the Chemours' wastewater treatment plant or to the Cape Fear River.

Kuraray Butacite® Manufacturing Area:

The Kuraray America Inc. – Fayetteville Plant's Butacite® manufacturing area produces two final products. Kuraray™ Butacite® Interlayer plastic sheeting is the final product used in safety glass such as automobile windshields. Polyvinyl butyral resin is shipped off-site as a transfer to other Kuraray locations for final processing. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Kuraray SentryGlas® Manufacturing Area:

The Kuraray America Inc. – Fayetteville Plant's SentryGlas® manufacturing area produces Kuraray™ SentryGlas® ionoplast interlayer laminate. SentryGlas® interlayer is used for laminated safety glass in side, rear, and overhead automobile windows. It is also used in architectural applications desiring safety glass. There is no contact process wastewater generated from this manufacturing facility, therefore only sanitary waste from this area is treated in the Chemours' wastewater treatment plant. This manufacturing facility does discharge non-contact cooling water to a surface ditch and ultimately to Outfall 002.

DuPont Polyvinyl Fluoride ("PVF") Manufacturing Area:

The DuPont Company – Fayetteville Works' PVF manufacturing area produces polyvinyl fluoride resin that is used in the electronics industry as a backing for photovoltaic cells, as well as many other uses. Wastewater generated from this manufacturing facility is discharged to the Chemours' wastewater treatment plant.

Supplemental Information – Permit Renewal Application – April 27, 2016

Alternate Application Schedule for §316(b) of the Clean Water Act

Final regulations implementing §316(b) of the Clean Water Act, which establish requirements for cooling water intake structures at existing facilities, were published in the Federal Register on August 15, 2014 with an effective date of October 14, 2014.

The Chemours Company – Fayetteville Works ("Chemours") operates a cooling water intake structure on the Cape Fear River that is subject to this new Federal Cooling Water Intake Structure Rule ("the Rule") as codified in 40 CFR Part 125.

The Rule requires the owner or operator of a facility subject to Subpart J whose currently effective permit expires after July 14, 2018, to submit to the Director the information required in the applicable provisions of 40 CFR 122.21(r) when applying for a subsequent permit.

Pursuant to 40 CFR 125.95(a)(2), the owner or operator of a facility subject to Part 125 Subpart J, "Requirements Applicable to Cooling Water Intake Structures for Existing Facilities Under Section 316(b) of the Clean Water Act", whose currently effective permit expires prior to July 14, 2018, may request the Director to establish an alternate schedule for the submission of the information required in 40 CFR 122.21(r) when applying for a subsequent (renewed) permit.

On October 20, 2015, a letter was sent from Michael E. Johnson, Environmental Manager, Chemours Company – Fayetteville Works, to Dr. Sergei Chernikov, NCDEQ Division of Water Resources' NPDES Complex Permitting Unit, requesting an alternate schedule whereby all the materials required by the Rule will be submitted with the 2021 renewal application.

On February 26, 2016, a letter was sent from S. Jay Zimmerman, Director, NCDEQ Division of Water Resources, to Michael E. Johnson, Environmental Manager, Chemours Company – Fayetteville Works, wherein the requested alternate schedule for submission of required CWIS information with the next permit renewal in 2021 was approved. A copy of Mr. Zimmerman's letter is attached to this application package.

Water Resources
ENVIRONMENTAL QUALITY

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

S. JAY ZIMMERMAN
Director

February 26, 2016

Mr. Michael E. Johnson, P.E.
Environmental Manager
Chemours Company
22828 NC Highway 87 West
Fayetteville, North Carolina 28306-7332

Subject: Alternate CWA 316(b) Application Schedule
NPDES Permit NC0003573
Fayetteville Works
Bladen County

Dear Mr. Johnson:

The Clean Water Act Section 316(b) Cooling Water Intake Structure (CWIS) Final Rule outlines regulations and standards for the design and operation of cooling water intake structures under the NPDES program. Your current permit expires October 31, 2016, with renewal application due by May 4, 2016. Since your permit expires prior to July 14, 2018, under 40 CFR 125.95(a)(2), you have requested an alternative schedule for submission of CWIS permit application information required in 40 CFR Part 122.21(r). Based on Division review, an alternate schedule for submission of required CWIS information with the next permit renewal in 2021 is approved. This schedule date will be established in the 2016 permit renewal as well.

Please note that facilities should begin to adapt their systems to comply with CWA Section 316(b) requirements. If you have any questions, please contact Tom Belnick with the NPDES Permitting Unit at 919-807-6390 or via email: tom.belnick@ncdenr.gov .

Sincerely,

For S. Jay Zimmerman, P.G.
Director, Division of Water Resources

Cc: NPDES File
Central File
Ec: US EPA Region 4
US FWS
NC WRC
NC DWR/Fayetteville Region

Supplemental Information – Permit Renewal Application – April 27, 2016

Elimination of Monitoring Requirement for PFOA

In December 2002, the DuPont Company – Fayetteville Works began production of ammonium perfluorooctanoate ("APFO"), which is the ammonium salt of perfluorooctanoic acid ("PFOA").

The renewed NPDES Permit No. NC0003573 that became effective on July 1, 2007, included a requirement for monthly monitoring of PFOA at Outfall 002.

In 2006 the North Carolina Division of Water Quality ("DWQ"), in consultation with the North Carolina Division of Waste Management and the North Carolina Department of Health and Human Services, established an Interim Maximum Allowable Concentration ("IMAC") of 2 µg/L for PFOA, which was intended for the protection of groundwater as a source of drinking water.

Following the issuance of this temporary health-based level, DWQ requested the assistance of the North Carolina Secretary's Science Advisory Board on Toxic Air Pollutants ("NCSAB") in reviewing the toxicological literature on PFOA and recommending to DWQ an update of the IMAC for PFOA in groundwater. On August 10, 2012, the NCSAB issued their recommendation to DWQ that the IMAC for PFOA in groundwater be reduced to 1 µg/L.

During the 3-year period from 2013 to 2015, the average monthly concentration of the final effluent discharge at Outfall 002 was 0.027 µg/L PFOA, with a maximum concentration of 0.088 µg/L PFOA. During the same period, the average monthly concentration of the incoming water from the Cape Fear River to the site, which is 99% of the effluent flow at Outfall 002, was 0.012 µg/L PFOA, with a maximum concentration of 0.031 µg/L PFOA.

The production of APFO at this facility ceased in April 2013.

The Chemours Company – Fayetteville Works (formerly the DuPont Company – Fayetteville Works) is requesting that the monthly monitoring requirement for PFOA at Outfall 002 be eliminated in the renewed NPDES Permit No. NC0003573 for the following reasons:

- APFO is no longer manufactured at this facility and has not been produced at the facility since April 2013;
- APFO is not and has never been used as a process aid or a raw material at this facility;
- The 3-year average concentration at Outfall 002 was 0.027 µg/L PFOA, versus the current NC-DWR IMAC of 2 µg/L PFOA and the NCSAB recommended 1 µg/L PFOA; and
- PFOA is present at low concentrations throughout the Cape Fear River basin, and that background level of PFOA in the Cape Fear River water contributes to the concentration measured at Outfall 002.

Supplemental Information – Permit Renewal Application – April 27, 2016

Form 2C Permit Application – Bis(chloromethyl) ether

Bis(chloromethyl) ether (CAS No. 542-88-1) was not analyzed for, and consequently was not reported on Page V-4 of Form 2C for both Outfall 001 and Outfall 002.

On November 28, 2014, the State of Oregon's Department of Environmental Quality ("ODEQ") issued a memorandum (Note 1) addressing the issue of analyzing for bis(chloromethyl) ether ("BCME"). In this memorandum, ODEQ states:

> "Based on the chemical's rapid hydrolysis in water, there are no analytical methods to measure BCME in water samples. Currently, the only analytical techniques available for this compound are for air samples. Region 10 EPA staff queried its Manchester Environmental Lab in Port Orchard, WA about potential analytical methods for BCME. Staff at the lab confirmed that there is no EPA method for BCME because of its rapid degradation in water."

Because of the lack of an EPA approved analytical method for bis(chloromethyl) ether in a water matrix, ODEQ concluded:

> "Given its rapid hydrolysis in water, there are no recommended analytical methods for BCME in water samples. Because BCME is not quantifiable in wastewater, DEQ will not require permit holders to monitor or conduct reasonable potential analyses for this toxic pollutant."

In an April 13, 2106, email from Tom Belnick, Supervisor of the NCDEQ Division of Water Resources' NPDES Complex Permitting Unit, to Michael Johnson, Environmental Manager, Chemours Company – Fayetteville Works, Mr. Belnick stated:

> "I checked with our DWR analytical lab, and they concur with Oregon's position and are not aware of any labs using even R&D methods for this analyte. Therefore, you can omit this parameter from your application renewal."

Note 1: http://www.deq.state.or.us/wq/standards/docs/toxics/BisChloromethylMemo.pdf